Contents

Anstis, P. J. P., Northcote, D. H.: Chlorophyll Accumulation by Callus Tissues of *Glycine max* 105

Atkins, C. A., s. Canvin, D. T. 207

Auderset, G., Greppin, H.: Comportement particulier d'une population mitochondriale au niveau de l'apex caulinaire de l'Epinard 73

Batt, T., Brown, D. H.: The Influence of Inorganic Nitrogen Supply on Amination and Related Reactions in the Blue-green Alga, *Anabaena cylindrica* Lemm. 27

Batt, T., Brown, D. H.: The Influence of Inorganic Nitrogen Supply on Carbohydrate and Related Metabolism in the Blue-green Alga, *Anabaena cylindrica* Lemm. 197

Baumgartner, B., s. Kende, H. 279

Bonner, B. A., s. Reed, N. R. 173

Brenneman, T., s. Goldsmith, M. H. M., *et al.* 301

Brown, D. H., s. Batt, T. 27, 197

Canvin, D. T., Atkins, C. A.: Nitrate, Nitrite and Ammonia Assimilation by Leaves: Effect of Light, Carbon Dioxide and Oxygen 207

Cataldo, D. A., s. Goldsmith, M. H. M., *et al.* 301

Esashi, Y., s. Gotô, N. 225

Evans, F. J.: Uptake of [2-^{14}]Mevalonic Acid by Lipid and Glycoside Sterols 99

Findenegg, G. R.: Beziehungen zwischen Carboanhydraseaktivität und Aufnahme von HCO_3^- und Cl^- bei der Photosynthese von *Scenedesmus obliquus* 123

Goldsmith, M. H. M., Cataldo, D. A., Karn, J., Brenneman, T., Trip, P.: The Rapid, Non-polar Transport of Auxin in the Phloem of Intact *Coleus* Plants 301

Good, J. E. G.: Naturally-occurring Growth Regulators in Leaf Washings of *Picea sitchensis* (Bong.) Carr and *Betula pendula* Roth. 45

Gordon, S. A., s. Sherwin, J. E. 65

Gotô, N., Esashi, Y.: Differential Hormone Responses in Different Growing Zones of the Bean Hypocotyl 225

Greppin, H., s. Auderset, G. 73

Grotha, R., s. Richter, G. (Short Communication) 273

Halperin, W., s. Minocha, S. C. 319

Hartung, W., s. Phillips, I. D. J. 109

Henke, R. R., Wilson, K. G., McClure, J. W., Treick, R. W.: Lysine-methionine-threonine Interactions in Growth and Development of *Mimulus cardinalis* Seedlings 333

Huber, W., Sankhla, N.: Untersuchungen über den Einfluß von Abscisin- und Gibberellinsäurebehandlung auf die Aktivitäten einiger Enzyme des Kohlenhydratstoffwechsels in Blättern von *Pennisetum typhoides* Keimlingen . 55

Karn, J., s. Goldsmith, M. H. M., *et al.* 301
Kende, H., Baumgartner, B.: Regulation of Aging in Flowers of *Ipomoea tricolor* by Ethylene 279
Lewak, S., s. Smoleńska, G. 361
Marchant, H. J., Pickett-Heaps, J. D.: The Effect of Colchicine on Colony Formation in the Algae *Hydrodictyon, Pediastrum* and *Sorastrum* 291
Margaris, N., s. Mitrakos, K. 17
McClure, J. W., s. Henke, R. R., *et al.* 333
Miflin, B. J.: Nitrite Reduction in Leaves; Studies on Isolated Chloroplasts . . 187
Minocha, S. C., Halperin, W.: Hormones and Metabolites which Control Tracheid Differentiation, with or without Concomitant Effects on Growth, in Cultured Tuber Tissue of *Helianthus tuberosus* L. 319
Mitrakos, K., Margaris, N.: Phytochrome Effect on Free Amino Acid Metabolism of Higher Plants 17
Northcote, D. H., s. Anstis, P. J. P. 105
Perbal, G.: L'action des statolithes dans la réponse géotropique des racines de *Lens culinaris* 153
Phillips, I. D. J., Hartung, W.: Basipetal and Acropetal Transport of [3,4-^{3}H] Gibberellin A_1 in Short and Long Segments of *Phaseolus coccineus* Second Internode 109
Pickard, B. G., s. Williams, St. E. 1
Pickett-Heaps, J. D., s. Marchant, H. J. 291
Reed, N. R., Bonner, B. A.: The Effect of Abscisic Acid on the Uptake of Potassium and Chloride into *Avena* Coleoptile Sections 173
Richter, G., Grotha, R.: Schnell markierte, niedermolekulare Komponenten in Nucleinsäurepräparationen aus pflanzlichen Zellen (Short Communication) 273
Sachar, R. C., s. Taneja, S. R. 133
Sankhla, N., s. Huber, W. 55
Schäfer, E., Schmidt, W.: Temperature Dependence of Phytochrome Dark Reactions 257
Schäfer, E., s. Schmidt, W. 267
Schedlbauer, M. D.: Biological Specificity of the Antheridogen from *Ceratopteris thalictroides* (L.) Brongn. 39
Schmidt, W., Schäfer, E.: Dependence of Phytochrome Dark Reactions on the Initial Photostationary State 267
Schmidt, W., s. Schäfer, E. 257
Schmitz, K., Srivastava, L. M.: The Enzymatic Incorporation of ^{32}P into ATP and Other Organic Compounds by Sieve-Tube Sap of *Macrocystis integrifolia* Bory (Short Communication) 85
Sherwin, J. E., Gordon, S. A.: The Effect of Auxin on the Incorporation of [^{3}H]Thymidine into the DNA of Pea Epicotyls 65
Smoleńska, G., Lewak, S.: The Role of Lipases in the Germination of Dormant Apple Embryos 361
Srivastava, L. M., s. Schmitz, K. (Short Communication) 85
Taneja, S. R., Sachar, R. C.: Stimulation of Polyphenol Oxidase (Monophenolase) Activity in Wheat Endosperm by Gibberellic Acid, Cycloheximide and Actinomycin D 133

Treick, R. W., s. Henke, R. R., *et al.* 333
Trip, P., s. Goldsmith, M. H. M., *et al.* 301
Ullrich, W. R.: Die nitrat- und nitritabhängige photosynthetische O_2-Entwicklung in N_2 bei *Ankistrodesmus braunii* 143
Vaughan, J. G., s. Werker, E. 243
Vieweg, G. H.: Enzyme des Saccharosestoffwechsels in Wurzeln 347
Walker, K. A.: Changes in Phytic Acid and Phytase during Early Development of *Phaseolus vulgaris* L. 91
Werker, E., Vaughan, J. G.: Anatomical and Ultrastructural Changes in Aleurone and Myrosin Cells of *Sinapis alba* during Germination 243
Williams, St. E., Pickard, B. G.: Connections and Barriers between Cells of *Drosera* Tentacles in Relation to Their Electrophysiology 1
Wilson, K. G., s. Henke, R. R., *et al.* 333

Indexed in Current Contents